

RITRON

COMPACT, SMALL, PROFESSIONAL TWO-WAY RADIO BASE STATION & MOBILE



- Two channels
- 2 Watts of power
- Weather scan ☁ feature (VHF only)
- Easy-to-hear, high audio output
- Built-in Quiet Call® tone feature
- Owner-selectable frequency settings
- Vehicle 12 VDC, or wall outlet
120 VAC operation

**RITRON JBS, PBS AND SBS SERIES
BASE STATION/ MOBILE
OWNER'S MANUAL**

**MADE IN THE
USA**

TABLE OF CONTENTS

<i>DESCRIPTION</i>	<i>PAGE</i>
INTRODUCTION	
General	1
Inspection	1
Model Identification	1
ACCESSORIES	
Optional/ Replacement Accessories	1
CONTROL & OPERATION	2
FIG-1: Radio Controls and Connectors	3
OPERATION	
Weather Scan (VHF Radios Only)	3
FIG-2: To Scan Weather Frequencies	3
What The Radio Tones Mean	3
Quiet Call Tone Codes	3
HOW TO DETERMINE FREQUENCY & TONE CODES IN YOUR JBS/ PBS/ SBS	
To Read Out (Beep Out) Radio Channel Contents	4
FIG-3: To Place the Radio in Program/ Readout Mode	4
FREQUENCY TABLE	5
QUIET CALL® (TONE) CODE TABLE	6
HOW TO PROGRAM YOUR JBS/ PBS/ SBS	7
PROGRAMMING	8

<i>DESCRIPTION</i>	<i>PAGE</i>
!! CAUTIONS — ALL RADIOS !!	8
TROUBLESHOOTING	
Notes	9
Chart	9
FCC LICENSE REQUIRED	
FCC Regulations	10
Service	10
How to Obtain an FCC Radio License	10
LIMITED WARRANTY	INSIDE BACK COVER
RADIO PROGRAMMING INFORMATION	BACK COVER
TABLES:	
1. Programmable Frequency Codes	5
2. Tone Codes	6
FIGURES:	
1. Radio Controls and Connectors	2
2. To Scan Weather Frequencies	3
3. To Place the Radio in Program/ Readout Mode	4

NOTE: Refer to page 1 for Accessory information.
Call RITRON at **800-USA-1-USA** (800-872-1872) for a complete Accessory listing.

INTRODUCTION

THANK YOU FOR CHOOSING RITRON

Congratulations on your purchase of the JBS, PBS, SBS radio. Your new radio is the culmination of Ritron's 25 years of designing, manufacturing, and supplying reliable, professional wireless communication products. Ritron wireless products will improve the operation, safety, and profitability of any organization by providing instant voice communications between employees throughout the workplace.

GENERAL

This manual covers these Ritron products:

JOB COM Models JBS-150/450

PATRIOT Models PBS-150/450

SportCom Model SBS-450

These base stations (or mobiles) are compact, programmable two-way radios designed to operate in a professional FM communications band (VHF or UHF business available). Featuring push-button operating controls and can be programmed to contain a unique set of operating frequencies and options.

INSPECTION

Make sure the package includes a radio, antenna and RPS-1A power supply. Examine the equipment immediately after delivery and report any damage to your shipping company.

MODEL IDENTIFICATION

The model number on the bottom of the radio case indicates its operating band. A color "dot" label on the bottom of the radio indicates the frequency of each channel. Refer to the Frequency Charts on page 5.

JBS-150 and PBS-150 Series radios are designed to operate on up to two channels within any 5 MHz band between 150 and 162 MHz.

JBS-450 and PBS-450 Series radios are designed to operate on up to two channels within any 10 MHz band between 450 and 470 MHz.

SBS-450 radios are designed to operate on up to two channels in the GMRS (General Mobile Radio Service).

<u>MODEL</u>	<u>FREQUENCY BAND</u>
JBS-150	VHF-FM (150 - 162 MHz)
PBS-150	VHF-FM (150 - 162 MHz)
JBS-450	UHF-FM (460 - 470 MHz)
PBS-450	UHF-FM (460 - 470 MHz)
SBS-450	GMRS Only (see page 5)

ACCESSORIES

OPTIONAL/ REPLACEMENT ACCESSORIES:

TO ORDER, CALL 800-USA-1-USA

<u>MODEL</u>	<u>DESCRIPTION</u>
AFB-1545	Replacement Antenna
RPS-1A	Replacement 110 VAC Power Supply
REP-2	Low Profile Earphone
RSM-3X	Remote Speaker/ Microphone
RHD-5X	Over-the-ear Earset w/ Boom Mic & In-line PTT
RHD-6X	Behind-the-ear Earset w/ Boom Mic & In-line PTT
RHD-1X	Headset, Single ear w/ In-line PTT
RHD-4X	Headset, Dual ear w/ In-line PTT

RHD-1X



RM-7



RHD-4X

RM-7	Hand Microphone & Hang-up Bracket
CCL-M	12 VDC, Cigarette Lighter Adaptor
JBS-MMK	Mobile Mounting Kit (Does not include screws to mount bracket to wall or vehicle)
RPS-5	Speaker, External, 5 Watt Audio Capable

NOTE: Call RITRON for a complete listing.

CONTROL & OPERATION

1 ANTENNA

The antenna radiates and receives radio signals. Attach the antenna base to the BNC connector on the rear of the radio.

NOTES: Position the antenna in vertical position for best performance.

Use only the type of antenna furnished with the radio, or an optional Ritron antenna suitable for the band you are using.

If the radio will be placed on a horizontal surface, configure the antenna hinge so the antenna stands in a vertical position. If the unit will be mounted on a vertical surface with the Mounting Kit (see Accessories, page 1), be sure the antenna is in a vertical position.

2 MICROPHONE

The microphone allows your voice to be heard in transmissions to other radios. Speak in a normal tone; shouting does not improve the listener's reception.

3 CHANNEL SELECT

Pressing this button changes the channel, and the radio beeps the channel number.

4 CHANNEL SELECT INDICATOR LAMPS

These show which channel is selected, 1 or 2.

5 VOLUME DOWN/ OFF

Press the Volume Down/ Off button to decrease volume. To switch Off the unit, press and hold this button until the speaker sounds a double beep.

6 ON/ VOLUME UP

To switch the unit On, press the On/ Volume Up button; the speaker will sound a brief confirmation tone. Once the radio is On, press this button to increase volume.

7 SPEAKER

The speaker, located behind the front grille, allows you to hear calls on your channel.

8 PUSH-TO-TALK SWITCH (PTT)

Press and hold the PTT when transmitting; release it to receive.

9 REMOTE MICROPHONE JACK

External microphones may be connected to this jack.

10 AUDIO ACCESSORY JACK

The audio accessory jack is used to plug in earphone options, and, in conjunction with the microphone jack, to connect an optional remote speaker/ microphone or a single- or dual-ear headset.

11 POWER SUPPLY (Not shown)

Connect the 110 VAC or optional 12 VDC Adapter here. Uncoil the cord completely and allow any extra length to hang away from the antenna.

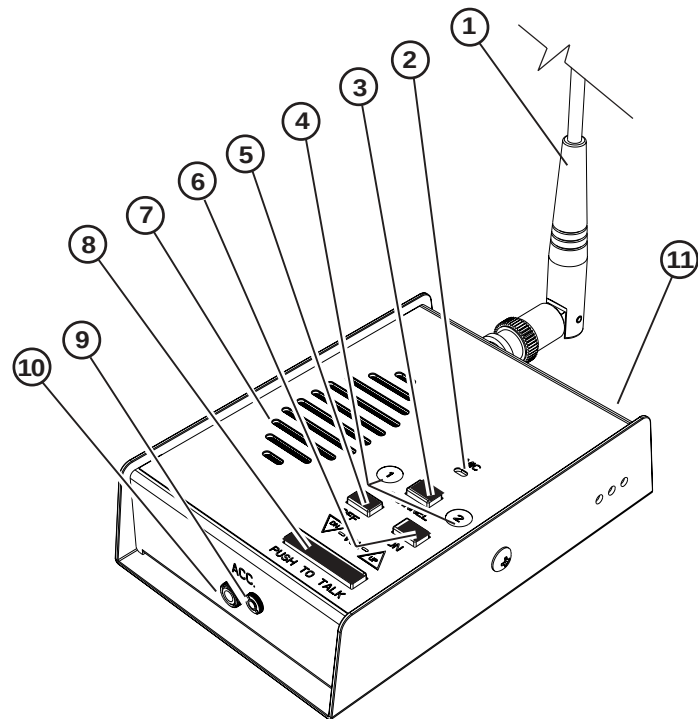


FIG-1: RADIO CONTROLS & CONNECTORS

OPERATION

WEATHER SCAN (VHF RADIOS ONLY)

TO SCAN STANDARD U.S. WEATHER FREQUENCIES and hear weather forecasts, follow the steps in FIG-2 below. To resume normal two-way operation, turn the radio off, then on again.

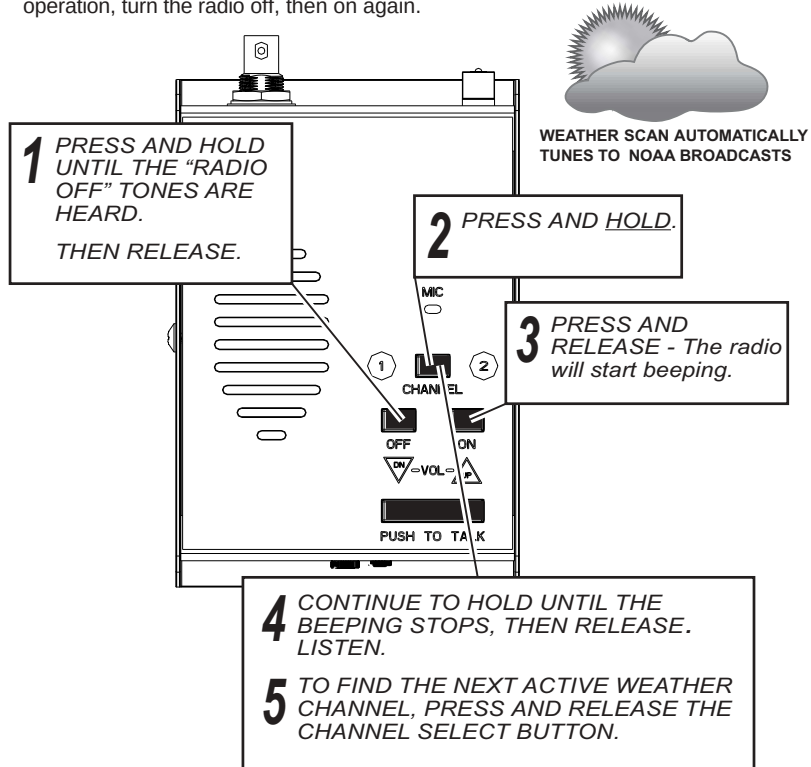


FIG-2: TO SCAN WEATHER FREQUENCIES

WHAT THE RADIO TONES MEAN

POWER ON/ SELF TEST "OK"

When it is first turned on, the radio runs a quick "self test" to confirm basic functions. The radio then sounds a brief "confirmation tone" to indicate it is ready to use.

ERROR TONES

In the Program/ Readout Mode, the radio will sound an Error Tone if a programming error is made.

If the self test detects a diagnostic error, an alternating error tone sounds. Turn the radio off, then on again. Consult a Ritron Dealer, or Ritron, Inc. with any problem you cannot correct.

CHANNEL SELECT TONE

When you press the channel select button, the radio "beeps" the number of times equal to the channel number selected.

QUIET CALL SQUELCH TONES

If you press both volume buttons simultaneously, a single beep indicates Quiet Call squelch is on; a "double beep" means it is off.

PROGRAM/ READOUT MODE TONE

Placing the radio in Program/ Readout Mode causes it to beep rapidly for about three seconds, then to "triple beep." This series of beeps indicates the radio is ready for you either to program, or to read out the programmed contents. See pages 4 and 7.

WEATHER SCAN TONE:

VHF Radios Only

The radio beeps when you activate the weather scan feature, and stops when it is ready to scan standard U.S. weather frequencies.

TRANSMITTER TIME-OUT

A low, then a high tone sounds and the transmitter automatically shuts off if you hold down the PTT button continuously for 60 seconds. The radio switches to "receive." Dealers can turn this feature off.

QUIET CALL CODES (Interference Eliminator Codes)

When you operate a frequency with a Quiet Call (QC) code, you filter out static, noise and "chatter" from other licensees on the channel. This allows you to communicate with less interference and to hear only those users in your radio group.

IMPORTANT: All radios in the talk group must operate on the same frequency and QC code.

HOW TO DETERMINE FREQUENCIES & TONE CODES IN YOUR JBS/ PBS/ SBS

IMPORTANT:

To talk to other users in your group, all radios must be set to the same frequency and Quiet Call code.

1 PRESS AND HOLD until the "Radio Off" tones are heard, THEN RELEASE.

2 PRESS AND HOLD.

3 PRESS AND RELEASE.
The radio starts beeping rapidly.

4 CONTINUE HOLDING THE PTT UNTIL THE BEEPING STOPS, THEN RELEASE IT.

The radio will sound a triple tone; it is now in Program/ Readout Mode.

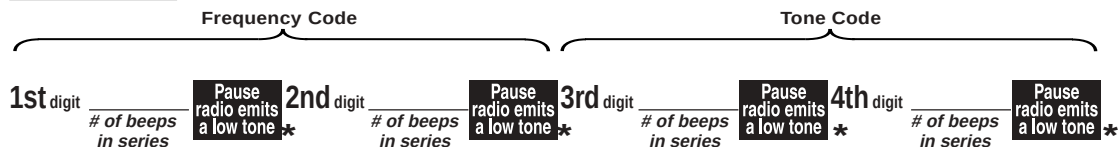
FIG-3: TO PLACE THE RADIO IN PROGRAM/ READOUT MODE

TO READ OUT (BEEP OUT) RADIO CHANNEL CONTENTS

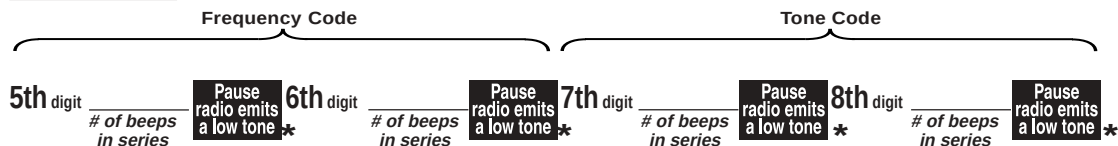
1. To enter the Programming/ Readout Mode, refer to FIG-3 at left.
2. Press and release the On/ Volume Up button. The radio will begin to sound a series of beeps; each series of beeps is equal to one digit of each two-digit frequency code or Quiet Call tone code programmed into the radio; see Tables 1 and 2, on pages 5 and 6.
3. Count the beeps in each series. Record the digits below.
Examples: 2 beeps = 2; 10 beeps = 0 (zero).

NOTES: The radio pauses and sounds a low tone at the end of each series of beeps, separating one digit from the next.
The radio sounds a triple tone when the readout (beep out) process is complete.

CHANNEL 1:



CHANNEL 2:



- NOTES:**
1. Ten (10) beeps = 0 (zero).
 2. The radio will beep out "44" as a tone code if it has been programmed for "No Tone."
 3. A radio that was PC-programmed with any frequency not listed in Table 1, page 5, will sound meaningless beeps on contents readout.
 4. A radio with identical codes in both channels will beep out only one frequency and one QC code.
 5. Ritron base station or mobile radios can have a different Quiet Call code programmed into each channel.
- * The radio pauses to sound a low tone at the end of each beep series.

FREQUENCY TABLE

TABLE 1: PROGRAMMABLE FREQUENCY CODES

JBS/ PBS BEEP OUT/ PTT CLICK FREQ. CODE	VHF Business Band (Models JBS-150 & PBS-150)	
	MHz	Frequency Color
01	154.600	Green Dot
02	154.570	Blue Dot
03	151.625	Red Dot *
04	151.955	Purple Dot
05	151.925	
06	154.540	
07	154.515	
08	154.655	
09	151.685	
10	151.715	
11	151.775	
12	151.805	
13	151.835	
14	151.895	
15	154.490	
16	151.655	
17	151.745	
18	151.865	
* Itinerant frequency		

JBS/ PBS BEEP OUT/ PTT CLICK FREQ. CODE	UHF Business Band (Models JBS-450 & PBS-450)	
	MHz	Frequency Color
01	467.7625	J
02	467.8125	K
03	464.5500	Yellow Dot *
04	464.5000	Brown Dot *
05	467.8500	Silver Star
06	467.8750	Gold Star
07	467.9000	Red Star
08	467.9250	Blue Star
09	469.2625	
10	462.5750	White Dot
11	462.6250	Black Dot
12	462.6750	Orange Dot
13	464.3250	
14	464.8250	
15	469.5000	
16	469.5500	
17	463.2625	
18	464.9125	
19	464.6000	
20	464.7000	
* Itinerant frequency		

SBS BEEP OUT/ PTT CLICK FREQ. CODE	UHF GMRS** Channels (Models SBS-450)
	MHz
01	462.5500
02	462.5625
03	462.5750
04	462.5875
05	462.6000
06	462.6125
07	462.6250
08	462.6375
09	462.6500
10	462.6625
11	462.6750
12	462.6875
13	462.7000
14	462.7125
15	462.7250
** General Mobile Radio Service	

NOTES: Programming ten (10) PTT clicks = the digit 0 (zero).
Hearing (10) ten beeps on readout = the digit 0 (zero).

See Tone Code Chart on the next page.



QUIET CALL[®]

(TONE) CODE TABLE**

TABLE 2: TONE CODES

BEEP OUT/ PTT CLICK CODE	Freq. (Hz)	Other Radio Brands Tone Code	Freq. (Hz)	BEEP OUT/ PTT CLICK CODE	Freq. (Hz)	Other Radio Brands Tone Code	Freq. (Hz)
01	67.0	XZ	67.0	27	167.9	6Z	167.9
02	71.9	XA	71.9	28	173.8	6A	173.8
03	74.4	WA	74.4	29	179.9	6B	179.9
04	77.0	XB	77.0	30	186.2	7Z	186.2
05	79.7	SP	79.7	31	192.8	7A	192.8
06	82.5	YZ	82.5	32	203.5	M1	203.5
07	85.4	YA	85.4	33	210.7	--	210.7
08	88.5	YB	88.5	34	218.1	--	218.1
09	91.5	ZZ	91.5	35	225.7	--	225.7
10	94.8	ZA	94.8	36	233.6	--	233.6
11	97.4	ZB	97.4	37	241.8	--	241.8
12	100.0	1Z	100.0	38	250.3	--	250.3
13	103.5	1A	103.5	39	69.4	--	69.4
14	107.2	1B	107.2	40	159.8	--	159.8
15	110.9	2Z	110.9	41	165.5	--	165.5
16	114.8	2A	114.8	42	171.3	--	171.3
17	118.8	2B	118.8	43	177.3	--	177.3
18	123.0	3Z	123.0	44***	No Tone	--	No Tone
19	127.3	3A	127.3	45	183.5	--	183.5
20	131.8	3B	131.8	46	189.9	--	189.9
21	136.5	4Z	136.5	47	196.6	--	196.6
22	141.3	4A	141.3	48	199.5	--	199.5
23	146.2	4B	146.2	49	206.5	--	206.5
24	151.4	5Z	151.4	50	229.1	--	229.1
25	156.7	5A	156.7	51	254.1	--	254.1
26	162.2	5B	162.2				

** Interference Eliminator codes

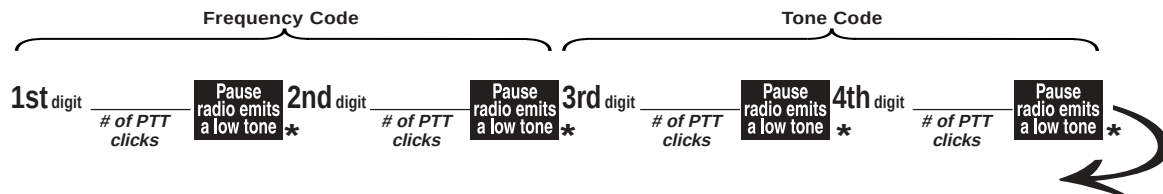
*** Refer to Note 2 on both pages 4 & 7.

HOW TO PROGRAM YOUR JBS/ PBS/ SBS

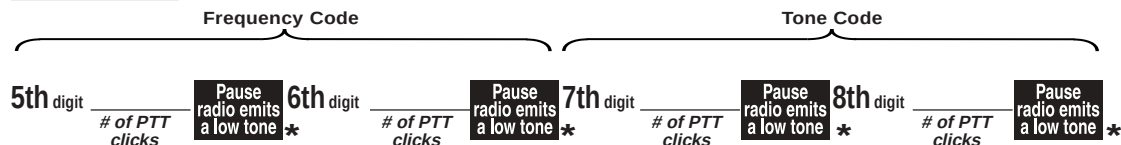
To match other radios, the owner can select FREQUENCY and QUIET CALL CODES from tables factory-programmed into the radio. See Tables 1 and 2, pages 5 and 6.

1. Choose your frequency codes (Table 1), and QC codes, if desired (Table 2). Programming channel 2 is optional. **Note that each code consists of two digits.** Write down the digits of the codes you are going to program in the space provided below.

CHANNEL 1:



CHANNEL 2:



2. Follow the instructions in FIG-3, page 4, to place the radio in the Program/ Readout Mode.
3. Enter codes in the sequence shown in Step 1 by clicking the PTT the number of times equal to each digit of the code.

EXAMPLE: Two-digit code "04" — click the PTT ten times to program "0", and pause. The radio sounds a low tone. Then click the PTT four times to program "4", and pause. The radio sounds a low tone.

4. When all the digits are programmed, press and release On/ Volume Up to save your programming; the radio sounds a triple beep.
NOTE: An error tone will sound if you attempt to save an incorrect digit. Turn the radio off, check the digits you are attempting to enter, then start over at Step 2.
5. Turn the radio off and then on again — it is now ready to use.

NOTES: 1. Ten (10) PTT clicks = 0 (zero).

2. Program "44" to enter "No Code" for Quiet Call. **You must enter "44" to match radios without tone codes.**
 3. IF YOU MAKE A PTT CLICK ERROR, turn the radio off then on, and start over.
 4. If the radio does not sound a confirming triple tone when you attempt to enter Program/ Readout Mode, the radio was factory or dealer customized to disable programming. Consult the radio owner or your dealer.
 5. Refer to Frequency and Tone Code (Quiet Call®) tables on pages 5 and 6.
- * The radio pauses to sound a low tone at the end of each beep series.

PROGRAMMING

TO ADJUST RECEIVER SQUELCH SENSITIVITY

JBS/ PBS/ SBS Series base stations can be adjusted for squelch sensitivity to reduce distant "co-channel" or other interference on **channels not programmed with Quiet Call**. You can also adjust the squelch sensitivity to prevent hearing messages from a distant radio group using the same frequency and QC code as your group.

1. Put the radio in Program/ Readout Mode; see FIG-3, page 4.
2. Enter an "8" by pressing the PTT eight (8) times without pausing.
3. Press the PTT to enter a single digit factor from "1" to "3". Press it the number of times equal to the factor. The higher the number, the more interference will be reduced and the stronger the incoming radio signal must be to be heard.
 - 1 = maximum sensitivity (factory setting)
 - 2 = reduced sensitivity
 - 3 = minimum sensitivity
4. Press and release On/ Volume Up to save the change.

NOTE: The adjust receiver squelch sensitivity feature is for user convenience. To prevent interference, Ritron recommends programming a different Quiet Call code into the channel.

!! CAUTIONS — ALL RADIOS !!

OBSERVE CAUTION IN THE FOLLOWING ENVIRONMENTS TO MAXIMIZE THE LIFE OF YOUR RADIO EQUIPMENT:

LOCATION: Be aware that this radio and/ or antenna may create interference with, or be interfered with, by nearby electronic equipment such as computers, monitors, keyboards, electronic telephones and other sensitive devices. Either move the equipment or use a remote antenna to separate components sufficiently to stop or reduce interference.

MOISTURE: JBS PBS/ SBS Series radios are not waterproof. DO NOT directly expose them to rain or excessive moisture.

CHEMICALS: Detergents, alcohol, aerosol sprays or petroleum products can damage the radio case. DO NOT use petroleum solvents of any kind; use a soft cloth moistened with water to clean the case.

EXTREME HEAT: High temperatures can damage the radio and its components. DO NOT expose the units to extreme heat or leave them in direct sunlight.

VIBRATION/ SHOCK: Although your JBS/ PBS/ SBS Series radio is designed to be rugged, it will not survive abuse. DO NOT drop the radio.

TROUBLESHOOTING

NOTES

- Reception can often be improved if you relocate by a short distance. This effect is more noticeable inside buildings.
 - The range for JBS/ PBS/ SBS radios is about two miles, line-of-sight..
- If your radio does not detect calls from other radios on the channel, turn Quiet Call off by pressing and holding both volume buttons at the same time; a double beep indicates Quiet Call is off.
- Without use of a repeater: To hear a call, select a channel programmed to receive the caller's transmit frequency (and tone, if any). To call another unit, select a channel programmed to transmit the other radio's receive frequency (and tone, if any).
 - Using a repeater: A radio channel can hold two separate operating frequencies, one for receive and one for transmit. Your channel must work with the repeater's transmit and receive frequencies and tones.

NOTE: A dealer must program the radio for repeater operation.
- An optional RM-7 Remote Speaker/ Microphone and headset, plus the CCL-M 12 VDC Adapter, allow operation in a vehicle. See page 1, Accessories.
- To "talk" with each other, radios must be programmed identically for Quiet Call code, as well as frequency (and tone code, if any). Each code is unique; radios respond only to the code programmed.
 - Press and hold both volume buttons at the same time.

A single beep indicates Quiet Call squelch is on.

A double beep indicates Quiet Call squelch is off.

CHART

If you have trouble operating the base station, review Control & Operation, pages 2 and 3.
If you think the base station is malfunctioning, check the list below.

Problem	Possible Solutions
GENERAL	
The radio does not work at all.	Make sure the 120 VAC outlet is active and the power supply is connected.
Operating features do not work exactly as expected.	The radio has been dealer programmed for customized operation. Consult your dealer.
Reception is poor.	Move to a different location; a change of a few feet may help. Use an optional high-gain antenna. See page 1, Optional/ Replacement Accessories
You cannot hear calls from other radios.	Turn off Quiet Call (coded) squelch. (See Note 2.) Ensure the radio receives on the same frequency as the caller transmits. (See Note 3.)
Your calls cannot be heard in other radios.	Make sure your radio transmits on the receive frequency of the radio(s) you want to call. (See Note 3.)
ERROR TONES	
An error tone sounds when the radio is first switched on.	See "Error Tones" on page 3.
An error tone occurs while transmitting.	Refer to "Transmitter Time-Out" on page 3.
QUIET CALL	
You cannot screen out calls from users outside of your Quiet Call group.	Make sure the channel is programmed with Quiet Call. Activate coded squelch. (See Note 5.)
You cannot hear Quiet Call messages while in Quiet Call (coded) squelch.	Confirm the channel is programmed to detect the same code the calling radio(s) transmits. (See Note 5.)
Others in your Quiet Call group cannot hear your Quiet Call messages.	Verify you transmit the same code the radio(s) you call are programmed to detect. (See Note 5.)

FCC LICENSE REQUIRED

FCC REGULATIONS

LICENSING —

The FCC requires the owners of the radios to obtain a station license before using them.

The station licensee is responsible for ensuring that transmitter power, frequency and deviation are within the limits specified by the station license. The station licensee is also responsible for proper operation and maintenance of the radio equipment. This includes checking the transmitter frequency and deviation periodically, using appropriate methods.

To get a FCC license for VHF or UHF frequencies, submit FCC application Forms as indicated in the block at right. Your Ritron dealer can help you with this process.

SAFETY STANDARDS —

The FCC (with its action in General Docket 79-144, March 13, 1985) has adopted a safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated equipment. Ritron observes these guidelines and recommends that you do also:

- DO NOT hold the radio so that the antenna is very close to or touching exposed parts of the body, especially the face or eyes, while transmitting. Keep the radio vertical, two to three inches away while talking into the front panel.
- DO NOT press the Push-To-Talk except when you intend to transmit.
- DO NOT operate radio equipment near electrical blasting caps or in an explosive atmosphere.
- DO NOT allow children to play with any radio equipment that contains a transmitting device.
- Repair of Ritron products should be performed only by Ritron authorized personnel.

SERVICE

Federal law prohibits you from making any internal adjustments to the transmitter, and/ or from changing transmit frequencies unless you are specifically designated by the licensee.

If your radio equipment fails to operate properly, or you wish to have the radio programmed, contact your authorized dealer or Ritron.

RITRON, INC., Repair Department
505 West Carmel Drive
Carmel, IN 46032 USA

Phone: 1-317-846-1201
FAX: 1-317-846-4978

HOW TO OBTAIN AN FCC RADIO LICENSE

Federal Communications Commission (FCC) Licensing Information

Your Ritron radio operates on frequencies which are subject to the Rules and Regulations of the FCC. The FCC requires all operators on these frequencies to obtain a station license before operating their equipment. Make application for your FCC license on FCC Forms 600 and 159. (For SBS-450, a GMRS radio, use Forms 574 and 159.)

*To have forms and instructions faxed to you by the FCC, call the **FCC Fax-On-Demand** system at **1-202-418-0177** from your fax machine; request Document 000600 & Form 159.*

*To have Document 000600 & Form 159 mailed to you, call the **FCC Forms Hotline** at **1-800-418-FORM** (1-800-418-3676).*

*For help with questions concerning the license application, contact the FCC at **1-888-CALL-FCC** (1-888-225-5322).*

*You must decide which radio frequency(ies) you can operate on before filling out your application; refer to Table 1 on page 5 of this manual. For help determining your frequencies, call Ritron at **1-800-USA-1-USA** (1-800-872-1872).*

RITRON, INC. LIMITED WARRANTY

WHAT THIS WARRANTY COVERS

RITRON, INC. ("RITRON") provides the following warranty against defects in materials and / or workmanship in **RITRON Radios and Accessories** under normal use and service during the applicable warranty period (as stated below). "Accessories" means antennas, holsters, chargers, earphones, speaker / microphones and items contained in the programming and programming / service kits.

WHAT IS COVERED	FOR HOW LONG	WHAT RITRON WILL DO
JBS/ PBS/ SBS Series Radios	1 year*	During the first year after date of purchase, RITRON will repair or replace the defective product, at RITRON's option, parts and labor included at no charge.
Accessories	90 days*	<i>*After date of purchase</i>

WHAT THIS WARRANTY DOES NOT COVER:

- Any technical information provided with the covered product or any other RITRON products;
- Installation, maintenance or service of the product, unless this is covered by a separate written agreement with RITRON;
- Any products not furnished by RITRON which are attached or used with the covered product, or defects or damage from the use of the covered product with equipment that is not covered (such as defects or damage from the charging or use of batteries other than with covered product);
- Defects or damage, including broken antennas, resulting from:
 - misuse, abuse, improper maintenance, alteration, modification, neglect, accident or act of God,
 - the use of covered products other than in normal and customary manner or,
 - improper testing or installation;
- Defects or damages from unauthorized disassembly, repair or modification, or where unauthorized disassembly, repair or modification prevents inspection and testing necessary to validate warranty claims;
- Defects or damages in which the serial number has been removed, altered or defaced.

IMPORTANT: This warranty sets forth the full extent of RITRON's express responsibilities regarding the covered products, and is given in lieu of all other express warranties. What RITRON has agreed to do above is your sole and exclusive remedy. No person is authorized to make any other warranty to you on behalf of RITRON. Warranties implied by state law, such

as implied warranties of merchantability and fitness for a particular purpose, are limited to the duration of this limited warranty as it applies to the covered product. Incidental and consequential damages are not recoverable under this warranty (this includes loss of use or time, inconvenience, business interruption, commercial loss, lost profits or savings). **Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. Because each covered product system is unique, RITRON disclaims liability for range, coverage, or operation of the system as a whole under this warranty.**

WHO IS COVERED BY THIS WARRANTY

This warranty is given only to the purchaser or lessee of covered products when acquired for use, not resale. This warranty is not assignable or transferable.

HOW TO GET WARRANTY SERVICE

To receive warranty service, you **MUST** deliver or send the defective product, delivery costs and insurance prepaid, within the applicable warranty period, to RITRON, INC., 505 West Carmel Drive, Carmel, Indiana 46032, Attention: Warranty Department.

Please point out the nature of the defect in as much detail as you can. **You MUST retain your sales or lease receipt (or other written evidence of the date of purchase) and deliver it along with the product.** If RITRON chooses to repair or replace a defective product, RITRON may replace the product or any part or component with reconditioned product, parts or components. Replacements are covered for the balance of the original applicable warranty period. All replaced covered products, parts or components become RITRON's property.

RIGHTS TO SOFTWARE RETAINED

Title and all rights or licenses to patents, copyrights, trademarks and trade secrets in any RITRON software contained in covered products are and shall remain in RITRON. RITRON nevertheless grants you a limited non-exclusive, transferable right to use the RITRON software only in conjunction with covered products. No other license or right to the RITRON software is granted or permitted.

YOUR RIGHTS UNDER STATE LAW

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

WHERE THIS WARRANTY IS VALID

This warranty is valid only within the United States, the District of Columbia and Puerto Rico.

RITRON®

Designed to work as an integrated system or as an add-on to virtually any existing two-way radio system



Quick Talk™ Alert for Remote Monitoring of any sensor or switch



**Wireless Intercom/Base Station
Desktop or Wall Mountable Radio**



**Quick Talk OutPost™ XT
Ruggedized Two-Way Callbox**
Battery-operated callboxes provide instant wireless communication over existing two-way radio systems



**Quick Talk OutPost™ Basic
Two-Way Callbox**



**Quick Assist®
Push-Button RF Transmitter**

RITRON JBS, PBS & SBS SERIES BASE STATION/MOBILES — OWNER'S MANUAL

Pub. 14500007 REV. B 01-11

COPYRIGHT© 1999-2001 RITRON, INC. • ALL RIGHTS RESERVED • RITRON®, JOBCOM®, PATRIOT®, SportCom® and Quiet Call® ARE REGISTERED TRADEMARKS OF RITRON, INC.

505 West Carmel Drive • Carmel, IN 46032

P. O. Box 1998 • Carmel, IN 46032

Ph: 317-846-1201 • Fax: 317-846-4978

Email: ritron@ritron.com • Website: www.ritron.com

